

Claims

1. Method for adjusting the relative output power of individual output wavelengths of a multi-output-wavelength Raman laser comprising:
in a first step, suppressing the relative output power of a potentially most powerful output wavelength;
in a second step, adjusting the relative output power of the shortest output wavelength;
in a third step, adjusting the relative output power of further output wavelengths, and
in a fourth step, adjusting the relative output power of the potentially most powerful output wavelength.
2. The method of claim 1, wherein the method is performed automatically.
3. The method of claim 1, wherein the relative output power of the potentially most powerful output wavelength is suppressed completely.
4. The method of claim 1, wherein the output power of the potentially most powerful output wavelength is suppressed by lowering the reflectivity of at least one wavelength selector that closes a cavity in which lasing occurs at the potentially most powerful output wavelength.
5. The method of claim 1, adjusting the relative output power of an individual output wavelength by adjusting at least one reflectivity of a wavelength selector of an associated cavity in which lasing occurs at said individual output wavelength.

6. The method of claim 1, wherein the method is performed at the end of a process in which the multi-output wavelength Raman laser is manufactured.

7. The method of claim 1, wherein the method is performed repeatedly during operation of the multi-output-wavelength Raman laser.

8. Device for adjusting the relative output power of individual output wavelengths of a multi-output-wavelength Raman laser, wherein the device suppresses the relative output power of a potentially most powerful output wavelength,
adjusts the relative output power of the shortest output wavelength,
adjusts the relative output power of further output wavelengths, and
adjusts the relative output power of the potentially most powerful output wavelength.

9. The device of claim 8, wherein the device performs the method of claim 1 when operatively coupled to the multi-output-wavelength Raman laser.